## **CLAIMS**

- Method to manufacture a metallized paper which comprises the stages of:
- 5 (i) curtain coating of a first aqueous film-forming composition on a substrate;
  - (ii) metallizing the coated substrate; and

- (iii) curtain coating of a second aqueous filmforming composition on said metallized substrate,
- characterized in that said first and second aqueous filmforming composition comprises a first emulsion polymer and/or second colloidal dispersion polymer.
- 2. Method according to claim 1, wherein said first and/or second aqueous film-forming composition has a low-shear viscosity, measured in a Brookfield viscometer at 60 rpm and 20°C, between 60 and 220 mPas and/or a high-shear viscosity, measured in a Haake viscometer at 37,750 s<sup>-1</sup> and 20°C, between 2.3 and 35 mPas.
  - 3. Method according to claim 1, wherein said first and/or second aqueous film-forming composition has a low-shear viscosity, measured in a Brookfield viscometer at
- 25 60 rpm and 20°C, between 100 and 180 mPas and/or a high-shear viscosity, measured in a Haake viscometer at 37,750 s<sup>-1</sup> and 20°C, between 7 and 20 mPas.
- 4. Method according to claim 1, wherein the first and/or second aqueous film-forming composition has a static surface tension, measured by a ring tensiometer, between 25 and 40 dyn/cm, preferably between 32 and 37 dyn/cm.
- 35 5. Method according to claim 1, wherein said first

polymer is selected from an acrylic polymer, an acrylicstyrene polymer, a modified acrylic polymer and their mixtures.

- 5 6. Method according to claim 1, wherein said second colloidal dispersion polymer is selected from an acrylic polymer, a modified acrylic polymer and their mixtures.
- 7. Method according to claim 1, wherein said first and/or second aqueous film-forming composition comprises a first emulsion polymer in a quantity between 10% and 70% by dry weight of said first polymer in relation to the total dry weight of resin and a second colloidal dispersion polymer in a quantity between 30% and 90% by dry weight of said second polymer in relation to the total dry weight of resin.
  - 8. Method according to claim 1, wherein said first and/or second aqueous film-forming composition further comprises an additive selected from thickeners, surfactants, waxes, pigments, anti-foam agents, dispersants, levelling agents and their mixtures.
- 9. Method according to claim 8, wherein said first and/or second aqueous film-forming composition comprises a thickener in a quantity between 2% and 5% by dry weight of thickener, in relation to the total dry weight of resin.
- 30 10. Method according to claim 8, wherein said thickener is selected from the group formed by an acrylic thickener, a polyurethane thickener, an acrylicacrylamide thickener, a cellulosic thickener and their mixtures.

- 11. Method according to claim 8, wherein said first and/or second aqueous film-forming composition comprises a surfactant in a quantity between 0.5% and 3% by dry weight of surfactant in relation to the total dry weight of resin.
- 12. Method according to claim 8, wherein said surfactant is selected from the group formed by an anionic surfactant, a non-ionic surfactant and their mixtures.
- 13. A composition which comprises a first emulsion polymer and/or a second colloidal dispersion polymer and has, at least, one of the following properties:
  - (i) low-shear viscosity, measured in a Brookfield viscometer at 60 rpm and 20°C, between 60 and 220 mPas, preferably between 100 and 180 mPas;
    - (ii) high-shear viscosity, measured in a Haake viscometer at 37,750<sup>s-1</sup> and 20°C, between 2.3 and 35 mPas, preferably between 7 and 20 mPas; or
    - (iii) static surface tension, measured by an ring tensiometer between 20 and 40 dyn/cm, preferably between 32 and 37 dyn/cm.
- 25 14. Composition according to claim 13, which further comprises an additive selected from thickeners, surfactants, waxes, pigments, anti-foam agents, dispersants, levelling agents and their mixtures
- 30 15. Composition according to claim 14, wherein the thickener is selected from the group formed by an acrylic thickener, a polyurethane thickener, an acrylicacrylamide thickener, a cellulosic thickener and their mixtures.

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16. Composition according to claim 14, wherein said surfactant is selected from the group formed by an anionic surfactant, a non-ionic surfactant and their mixtures.